



SEQUENCE LISTING

<110> Michael E. Mendelsohn

<120> METHOD FOR ASSAYING COMPOUNDS AFFECTING
CELL DIVISION

<130> 00398/506001

<140> 09/352,570

<141> 1999-07-13

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)...(618)

<400> 1

atg gcg ctg cag ctc tcc cgg gag cag gga atc acc ctg cgc ggg agc	48
Met Ala Leu Gln Leu Ser Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser	
1 5 10 15	
gcc gaa atc gtg gcc gag ttc ttc tca ttc ggc atc aac agc att tta	96
Ala Glu Ile Val Ala Glu Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu	
20 25 30	
tat cag cgt ggc ata tat cca tct gaa acc ttt act cga gtg cag aaa	144
Tyr Gln Arg Gly Ile Tyr Pro Ser Glu Thr Phe Thr Arg Val Gln Lys	
35 40 45	
tac gga ctc acc ttg ctt gta act act gat ctt gag ctc ata aaa tac	192
Tyr Gly Leu Thr Leu Leu Val Thr Thr Asp Leu Glu Leu Ile Lys Tyr	
50 55 60	
cta aat aat gtg gtg gaa caa ctg aaa gat tgg tta tac aag tgt tca	240
Leu Asn Asn Val Val Glu Gln Leu Lys Asp Trp Leu Tyr Lys Cys Ser	
65 70 75 80	
gtt cag aaa ctg gtt gta gtt atc tca aat att gaa agt ggt gag gtc	288
Val Gln Lys Leu Val Val Val Ile Ser Asn Ile Glu Ser Gly Glu Val	
85 90 95	
ctg gaa aga tgg cag ttt gat att gag tgt gac aag act gca aaa gat	336
Leu Glu Arg Trp Gln Phe Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp	
100 105 110	
gac agt gca ccc aga gaa aag tct cag aaa gct atc cag gat gaa atc	384

Asp	Ser	Ala	Pro	Arg	Glu	Lys	Ser	Gln	Lys	Ala	Ile	Gln	Asp	Glu	Ile		
		115					120					125					
cgt	tca	gtg	atc	aga	cag	atc	aca	gct	acg	gtg	aca	ttt	ctg	cca	ctg	432	
Arg	Ser	Val	Ile	Arg	Gln	Ile	Thr	Ala	Thr	Val	Thr	Phe	Leu	Pro	Leu		
		130				135					140						
ttg	gaa	gtt	tct	tgt	tca	ttt	gat	ctg	ctg	att	tat	aca	gac	aaa	gat	480	
Leu	Glu	Val	Ser	Cys	Ser	Phe	Asp	Leu	Leu	Ile	Tyr	Thr	Asp	Lys	Asp		
		145			150					155					160		
ttg	gtt	gta	cct	gaa	aaa	tgg	gaa	gag	tcg	gga	cca	cag	ttt	att	acc	528	
Leu	Val	Val	Pro	Glu	Lys	Trp	Glu	Glu	Ser	Gly	Pro	Gln	Phe	Ile	Thr		
				165					170					175			
aat	tct	gag	gaa	gtg	cgc	ctt	cgt	tca	ttt	act	act	aca	atc	cac	aaa	576	
Asn	Ser	Glu	Glu	Val	Arg	Leu	Arg	Ser	Phe	Thr	Thr	Thr	Ile	His	Lys		
			180					185					190				
gta	aat	agc	atg	gtg	gcc	tac	aaa	att	cct	gtc	aat	gac	tga			618	
Val	Asn	Ser	Met	Val	Ala	Tyr	Lys	Ile	Pro	Val	Asn	Asp	*				
		195					200					205					

<210> 2
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 2

Arg	Glu	Gln	Gly	Ile	Thr	Leu	Arg	Gly	Ser	Ala	Glu	Ile	Val	Ala	Glu		
1				5					10					15			
Phe	Phe	Ser	Phe	Gly	Ile	Asn	Ser	Ile	Leu	Tyr	Gln	Arg	Gly	Ile	Tyr		
			20					25					30				
Pro	Ser	Glu	Thr	Phe	Thr	Arg	Val	Gln	Lys	Tyr	Gly	Leu	Thr	Leu	Leu		
		35					40					45					
Val	Thr	Thr	Asp	Leu	Glu	Leu	Ile	Lys	Tyr	Leu	Asn	Asn	Val	Val	Glu		
		50				55					60						
Gln	Leu	Lys	Asp	Trp	Leu	Tyr	Lys	Cys	Ser	Val	Gln	Lys	Leu	Val	Val		
65					70				75					80			
Val	Ile	Ser	Asn	Ile	Glu	Ser	Gly	Glu	Val	Leu	Glu	Arg	Trp	Gln	Phe		
			85					90					95				
Asp	Ile	Glu	Cys	Asp	Lys	Thr	Ala	Lys	Asp	Asp	Ser	Ala	Pro	Arg	Glu		
			100					105					110				
Lys	Ser	Gln	Lys	Ala	Ile	Gln	Asp	Glu	Ile	Arg	Ser	Val	Ile	Arg	Gln		
		115				120						125					
Ile	Thr	Ala	Thr	Val	Thr	Phe	Leu	Pro	Leu	Leu	Glu	Val	Ser	Cys	Ser		
		130				135					140						
Phe	Asp	Leu	Leu	Ile	Tyr	Thr	Asp	Lys	Asp	Leu	Val	Val	Pro	Glu	Lys		
145				150					155					160			
Trp	Glu	Glu	Ser	Gly	Pro	Gln	Phe	Ile	Thr	Asn	Ser	Glu	Glu	Val	Arg		
			165					170					175				
Leu	Arg	Ser	Phe	Thr	Thr	Thr	Ile	His	Lys	Val	Asn	Ser	Met	Val	Ala		
		180						185					190				
Tyr	Lys	Ile	Pro	Val	Asn	Asp											
		195															

<210> 3
 <211> 600
 <212> DNA
 <213> Ovis aries

<220>
 <221> CDS
 <222> (1)...(600)

<400> 3
 cgg gag caa ggc atc acc ttg cgc ggg agc gcc gag atc gtg gcc gag 48
 Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu
 1 5 10 15

ttc ttc tca ttt ggt atc aac agt att tta tat cag cgt ggc ata tat 96
 Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr
 20 25 30

cca tcg gaa acc ttt act cga gtg cag aaa tat gga ctc acc ttg ctt 144
 Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu
 35 40 45

gta act act gat cct gag ctc ata aaa tac cta aat aat gtg gtg gat 192
 Val Thr Thr Asp Pro Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Asp
 50 55 60

caa cta aaa gaa tgg tta tac aag tgt tca gtt cag aaa ctg gtg gta 240
 Gln Leu Lys Glu Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val
 65 70 75 80

gtc atc tca aat att gaa agt gga gag gtc ctt gaa aga tgg cag ttt 288
 Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe
 85 90 95

gat att gag tgt gac aag act gca aaa gat gac agt gca ccc aga gaa 336
 Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu
 100 105 110

aag tct cag aaa gct atc caa gat gaa atc cgt tca gtg atc aga cag 384
 Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln
 115 120 125

atc aca gct aca gta aca ttt ctg cca ctg ttg gaa gtt tct tgt tca 432
 Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Val Ser Cys Ser
 130 135 140

ttt gat ctc ctc att tat aca gac aaa gat ctg gtt gta cct gag aaa 480
 Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys
 145 150 155 160

tgg gaa gag tcc gga cca cag ttc att acc aat tct gaa gaa gtt cgt 528
 Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg
 165 170 175

ctt cgt tca ttc act act aca att cac aaa gta aat agc atg gta gcc 576
 Leu Arg Ser Phe Thr Thr Thr Ile His Lys Val Asn Ser Met Val Ala
 180 185 190

tac aaa att cct gtc cat gac tga
 Tyr Lys Ile Pro Val His Asp *
 195

600

<210> 4
 <211> 199
 <212> PRT
 <213> Ovis aries

<400> 4
 Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu
 1 5 10 15
 Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr
 20 25 30
 Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu
 35 40 45
 Val Thr Thr Asp Pro Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Asp
 50 55 60
 Gln Leu Lys Glu Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val
 65 70 75 80
 Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe
 85 90 95
 Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu
 100 105 110
 Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln
 115 120 125
 Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser
 130 135 140
 Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys
 145 150 155 160
 Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg
 165 170 175
 Leu Arg Ser Phe Thr Thr Thr Ile His Lys Val Asn Ser Met Val Ala
 180 185 190
 Tyr Lys Ile Pro Val His Asp
 195